#### **Claims**

### 1. Compounds of the general formula I

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Formula I

wherein

R1 represents the groups

$$R^6 \stackrel{\stackrel{\scriptstyle \bullet}{=}}{\stackrel{\scriptstyle \bullet}{=}} N R^5$$

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whereby in these groups  $\mathsf{R}^5$  is hydrogen, lower alkyl with 1 to 4 carbon atoms, or the group

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wherein

 $R^8$  represents, lower alkyloxy, lower alkylamino, or lower alkyl with 1 to 4 carbon atoms;

R<sup>9</sup> represents, lower alkyl with 1 to 4 carbon atoms;

20 R<sup>8</sup> and R<sup>9</sup> together form a 5- or 6- membered heterocyclic ring containing one to two hetero atoms which can be the same or different and are oxygen or nitrogen.

R<sup>6</sup> represent hydrogen, halogen, nitro, or lower alkyloxy;

R<sup>7</sup> represents hydrogen;

R<sup>2</sup> and R<sup>3</sup> independently represent hydrogen; lower alkyl with 1 to 3 carbon atoms; or together a lower alkylene group with 1 to 3 carbon atoms bridging the oxygen atoms and forming a five, six or seven membered ring;

R<sup>4</sup> represents hydrogen;

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and pharmaceutically acceptable salts thereof.

# 2. Compounds of the general formula I'

Formula I'

#### 15 wherein

R1 represents the groups

$$R^6 \stackrel{\text{II}}{\underset{R}{\overset{}}} R^5$$

whereby in these groups R<sup>5</sup> is hydrogen, lower alkyl with 1 to 4 carbon atoms, or the group

wherein

R8 represents, lower alkyloxy, or lower alkyl with 1 to 4 carbon atoms;

R9 represents, lower alkyl with 1 to 4 carbon atoms;

R<sup>8</sup> and R<sup>9</sup> together form a 5- or 6- membered heterocyclic ring containing one to two hetero atoms which can be the same or different and arc oxygen or nitrogen.

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R<sup>6</sup> represent hydrogen, halogen, nitro, or lower alkyloxy;

R<sup>7</sup> represents hydrogen;

10 R<sup>2</sup> and R<sup>3</sup> independently represent hydrogen; lower alkyl with 1 to 3 carbon atoms; or together a lower alkylene group with 1 to 3 carbon atoms bridging the oxygen atoms and forming a five, six or seven membered ring;

R⁴ represents hydrogen;

and pharmaceutically acceptable salts thereof.

3. Compounds of the general formula II

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$$R^3$$
O  $R^5$   $R^6$ 

wherein

R<sup>2</sup>and R<sup>3</sup> represent methyl;

25 R<sup>4</sup> represents hydrogen;

R<sup>5</sup> and R<sup>6</sup> are as defined in formula I;

R<sup>7</sup> represents hydrogen;

and pharmaceutically acceptable salts thereof.

## 4. Compounds of the general formula !!!

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#### 5 wherein

R<sup>2</sup> and R<sup>3</sup> represent methyl;

R⁴ represents hydrogen;

R<sup>5</sup> and R<sup>6</sup> are as defined in formula I;

R<sup>7</sup> represents hydrogen;

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and pharmaceutically acceptable salts thereof.

## 5. Compounds of the general formula IV

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wherein

R<sup>2</sup> and R<sup>3</sup> represent methyl;

R<sup>4</sup> represents hydrogen;

20 R<sup>5</sup> and R<sup>6</sup> are as defined in formula I;

R<sup>7</sup> represents hydrogen;

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and pharmaceutically acceptable salts thereof.

6. Compounds selected from the group consisting of:

5-[6,7-Dimethoxy-2-(7-methoxy-1H-indol-3-ylmethyl)-benzofuran-4-ylmethyl]-pyrimidine-2,4-diamine;

5-[6,7-Dimethoxy-2-(5-methoxy-1H-indol-3-ylmethyl)-benzofuran-4-ylmethyl]-pyrimidine-2,4-diamine;

5-[2-(1H-Indol-3-ylmethyl)-6,7-dimethoxy-benzofuran-4-ylmethyl]-pyrimidine-2,4-diamine;

5-[6,7-Dimethoxy-2-(2-methyl-1H-indol-3-ylmethyl)-benzofuran-4-ylmethyl]-pyrimidine-2,4-diamine;

 $5\hbox{-}[2\hbox{-}(6\hbox{-}Fluoro\hbox{-}1H\hbox{-}indol\hbox{-}3\hbox{-}ylmethyl]\hbox{-}6,7\hbox{-}dimethoxy\hbox{-}benzofuran\hbox{-}4\hbox{-}ylmethyl]\hbox{-}pyrimidine\hbox{-}1H\hbox{-}indol\hbox{-}3\hbox{-}ylmethyl]\hbox{-}pyrimidine\hbox{-}2H\hbox{-$ 

15 2,4-diamine;

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{3-[4-(2,4-Diamino-pyrimidin-5-ylmethyl)-6,7-dimethoxy-benzofuran-2-ylmethyl]-1H-indol-2-yl}-morpholin-4-yl-methanone;

3-[4-(2,4-Diamino-pyrimidin-5-ylmethyl)-6,7-dimethoxy-benzofuran-2-ylmethyl]-1H-indole-2-carboxylic acid dimethylamide;

5-[6,7-Dimethoxy-2-(5-nitro-1H-indol-3-ylmethyl)-benzofuran-4-ylmethyl]-pyrimidine-2,4-diamine:

{3-[4-(2,4-Diamino-pyrimidin-5-ylmethyl)-6,7-dimethoxy-benzofuran-2-ylmethyl]-1H-indol-2-yl}-pyrrolidin-1-yl-methanone;

3-[4-(2,4-Diamino-pyrimidin-5-ylmethyl)-6,7-dimethoxy-benzofuran-2-ylmethyl]-5-methoxy-1H-indole-2-carboxylic acid dimethylamide;

3-[4-(2,4-Diamino-pyrimidin-5-ylmethyl)-6,7-dimethoxy-benzofuran-2-ylmethyl]-1H-indole-2-carboxylic acid methoxy-methyl-amide;

5-Chloro-3-[4-(2,4-diamino-pyrimidin-5-ylmethyl)-6,7-dimethoxy-benzofuran-2-ylmethyl]-1H-indole-2-carboxylic acid dimethylamide;

30 3-[4-(2,4-Diamino-pyrimidin-5-ylmethyl)-6,7-dimethoxy-benzofuran-2-ylmethyl]-5-fluoro-1H-indole-2-carboxylic acid dimethylamide;

5-Chloro-3-[4-(2,4-diamino-pyrimidin-5-ylmethyl)-6,7-dimethoxy-benzofuran-2-ylmethyl]-1H-indole-2-carboxylic acid methoxy-methyl-amide;

3-[4-(2,4-Diamino-pyrimidin-5-ylmethyl)-6,7-dimethoxy-benzofuran-2-ylmethyl]-1H-

indole-2-carboxylic acid N,N'-dimethyl-hydrazide;

3-[4-(2,4-Diamino-pyrimidin-5-ylmethyl)-6,7-dimethoxy-benzofuran-2-ylmethyl]-5-fluoro-1H-indole-2-carboxylic acid methoxy-methyl-amide;

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and pharmaceutically acceptable salts thereof.

7. intermediates of the general formula XI and XII.

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wherein R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup> and R<sup>6</sup> have the meaning given in fomula I in claim 1 and 2.

- 8. Pharmaceutical compositions comprising one or more compounds of any one of claims 1 to 6 and usual inert carrier materials.
  - 9. Pharmaceutical compositions for the treatment of of infections caused by Gram positive or Gram negative pathogens comprising one or more compounds of any one of claims 1 to 6 and usual inert carrier materials.
  - 10. The compounds of any one of claims 1 to 6 for use as medicaments.
  - 11. The compounds of any one of claims 1 to 6 for use as medicaments for the treatment of infection,
  - 12. The compounds of any one of claims 1 to 6 for use as medicaments for the treatment of infection caused by Gram positive or Gram negative pathogens or by a mixture thereof.
- 13. The use of one or more compounds of any one of claims 1 to 6 as active ingredients for the production of pharmaceutical compositions.
  - 14. The use of one or more compounds of any one of claims 1 to 6 as active ingredients for the production of pharmaceutical compositions for the treatment of infections.

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15. The use of one or more compounds of any one of claims 1 to 6 as active ingredients for the production of pharmaceutical compositions for the treatment of infections caused by Gram positive or Gram negative pathogens or by a mixture thereof.

- 16. A process for the manufacture of pharmaceutical compositions containing one or more compounds as claimed in any one of claims 1 to 6 as active ingredients which process comprises mixing one or more active ingredients with pharmaceutically acceptable inert carrier materials and adjuvants in a manner known per se.
- 17. A process for the manufacture of pharmaceutical compositions for the treatment of infections caused by Gram positive or Gram negative pathogens or by a mixture thereof containing one or more compounds as claimed in any one of claims 1 to 6 as active ingredients which process comprises mixing one or more active ingredients with pharmaceutically acceptable inert carrier materials and adjuvants in a manner known per se.

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